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 TI Urea-ammonium phosphate composite fertilizer granules
 IN Toi, Kiyoshi; Yauchi, Kiyoshi; Minota, Narihiko; Nishikawa, Koichi
 PA Mitsubishi Chemical Industries Co., Ltd.
 SO Jpn. Tokkyo Koho, 7 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 IC C05GBCD; B01J
 CC 19 (Fertilizers, Soils, and Plant Nutrition)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 46009211	B4	19710309	JP	19660621 <--
AB	Liquidities of $(\text{NH}_4)_3\text{PO}_4$ or $(\text{NH}_4)_3\text{PO}_4 + (\text{NH}_4)_2\text{SO}_4$ slurries were increased by addition of >70% aqueous urea instead of H_2O only and the slurries were pelletized with urea powders to give hard spherical composite fertilizers containing 3-20 weight% (as N) urea. For example, a slurry consisting of $(\text{NH}_4)_3\text{PO}_4$ 2745, $(\text{NH}_4)_2\text{SO}_4$ 2320, impurity 225, and H_2O 1665 kg/hr was mixed at 100° to 23.1% H_2O content with 915 kg/hr urea (aqueous solution), mixed with 915 kg/hr powdered urea and 2800 kg/hr KCl, fed into a pelletizer with partial recirculation at 73°, and dried to give a composite fertilizer (total N 16.21, P_2O_5 16.92, and K_2O 16.66%) with 2.25 kg hardness for 2-4-mm-diameter particles).				
ST	urea phosphate fertilizer; ammonium phosphate fertilizer				
IT	Fertilizers				
	RL: BIOL (Biological study)				
	(ammonium-urea phosphate, manufacturing of granulated)				
IT	8068-14-2				
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)				
	(as fertilizers)				